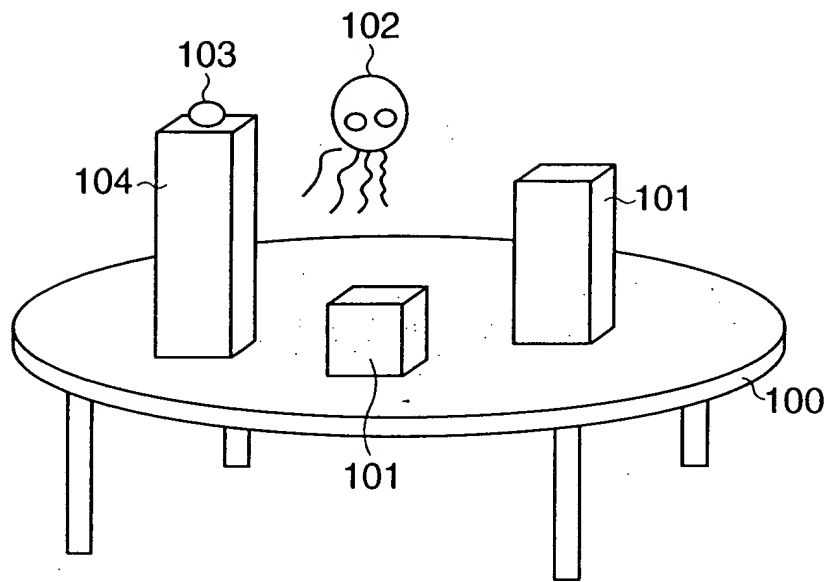


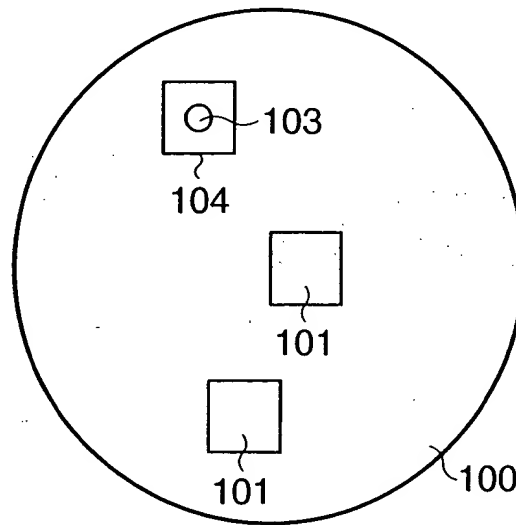


**FIG. 2**

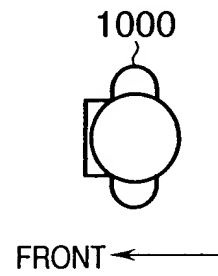


002720-18030520

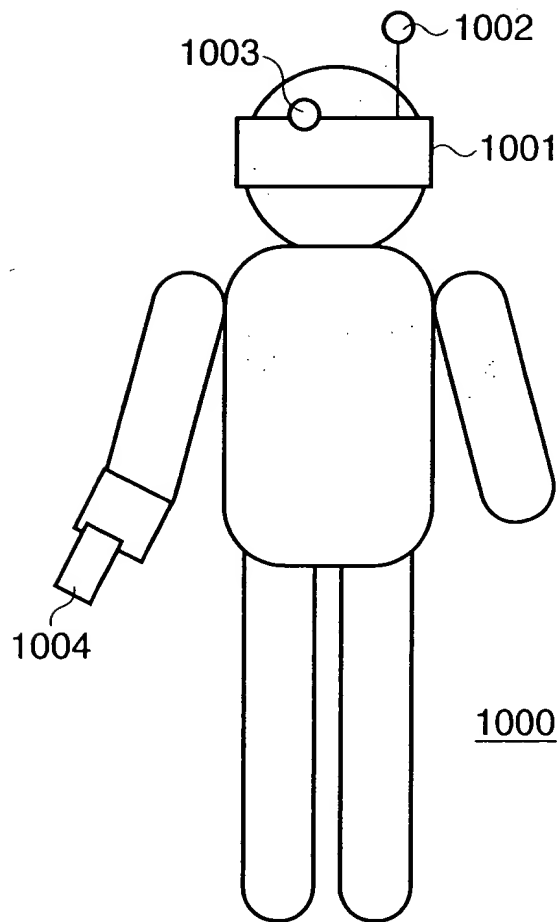
**FIG. 3**



TOP VIEW



**FIG. 4**



002720-10090500

FIG. 5

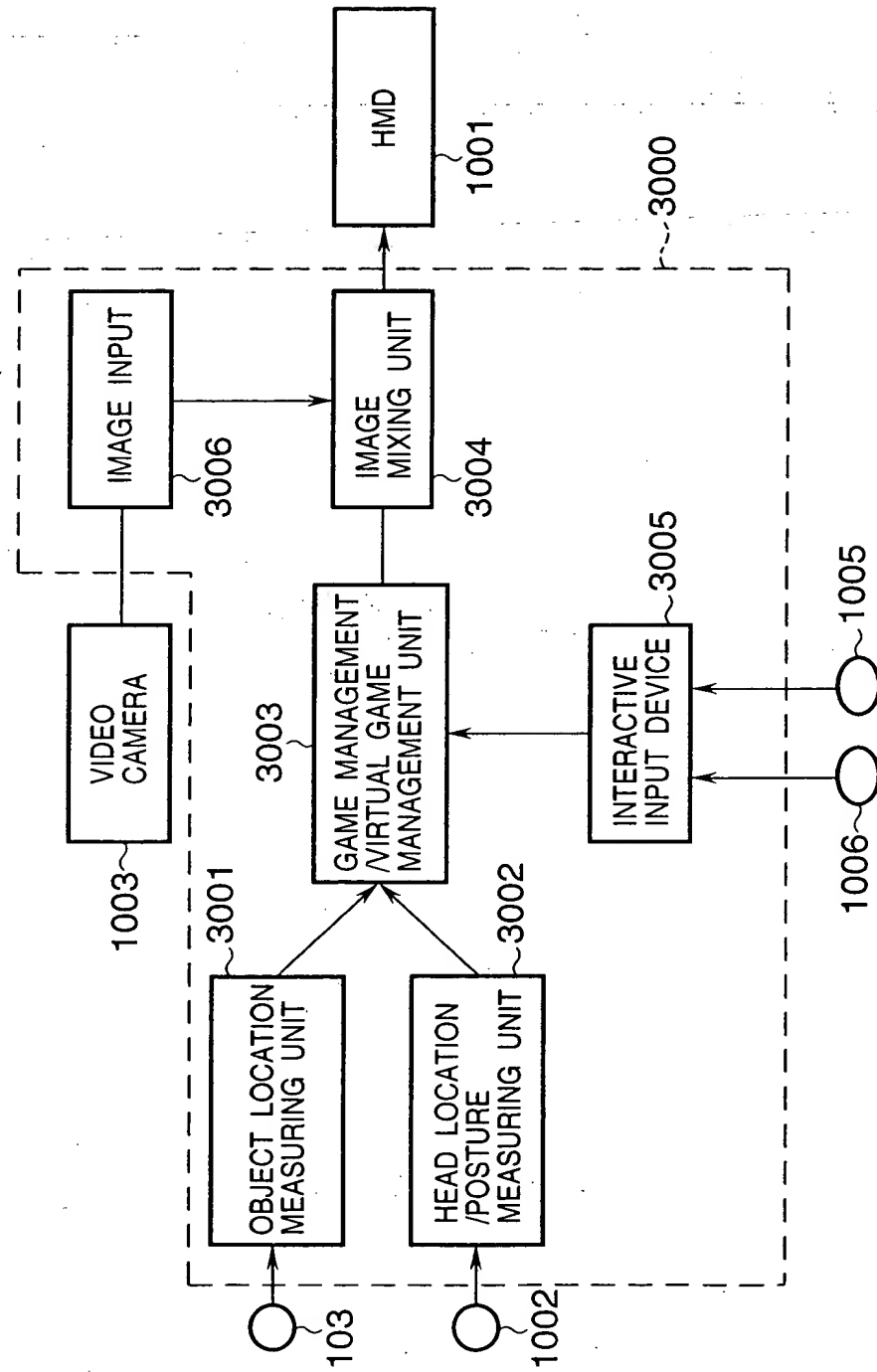


FIG. 6

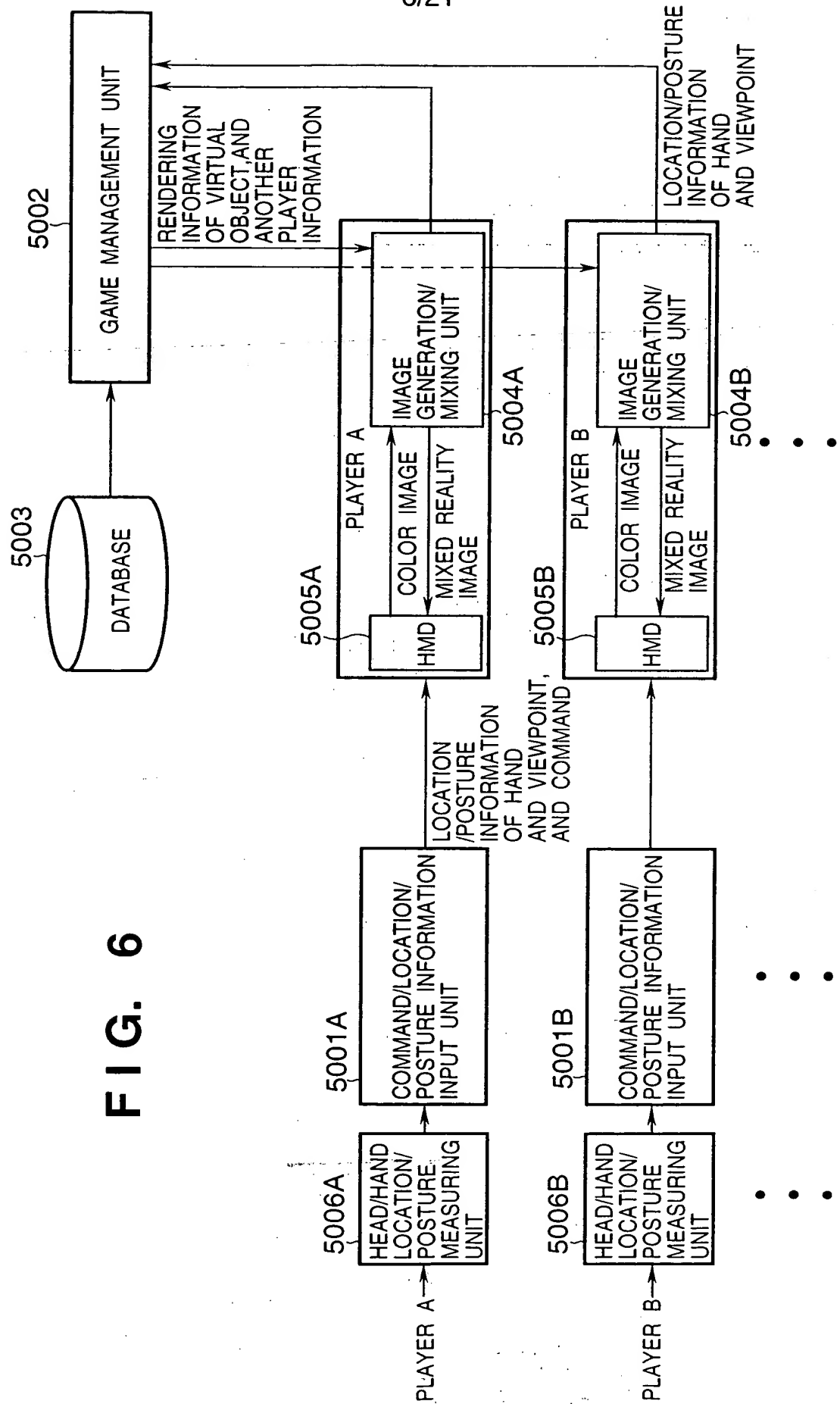


FIG. 7

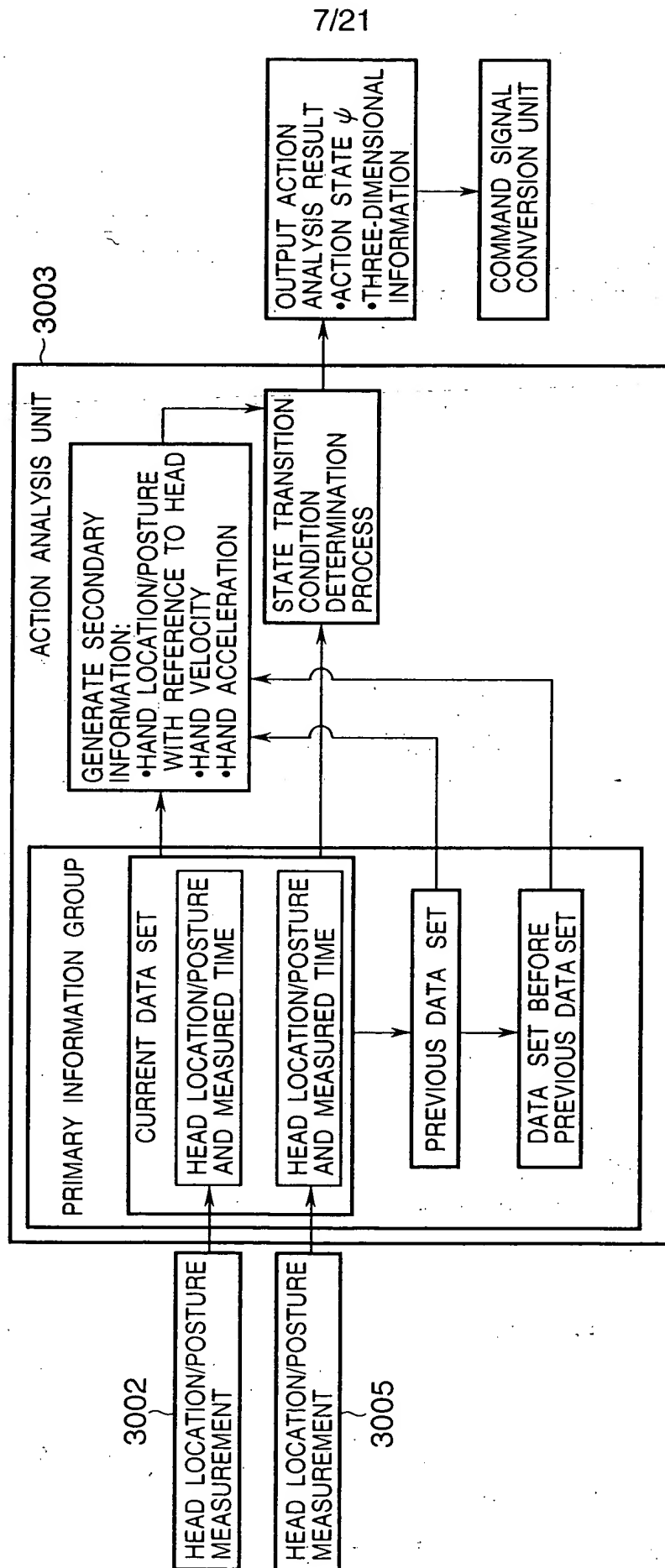


FIG. 8

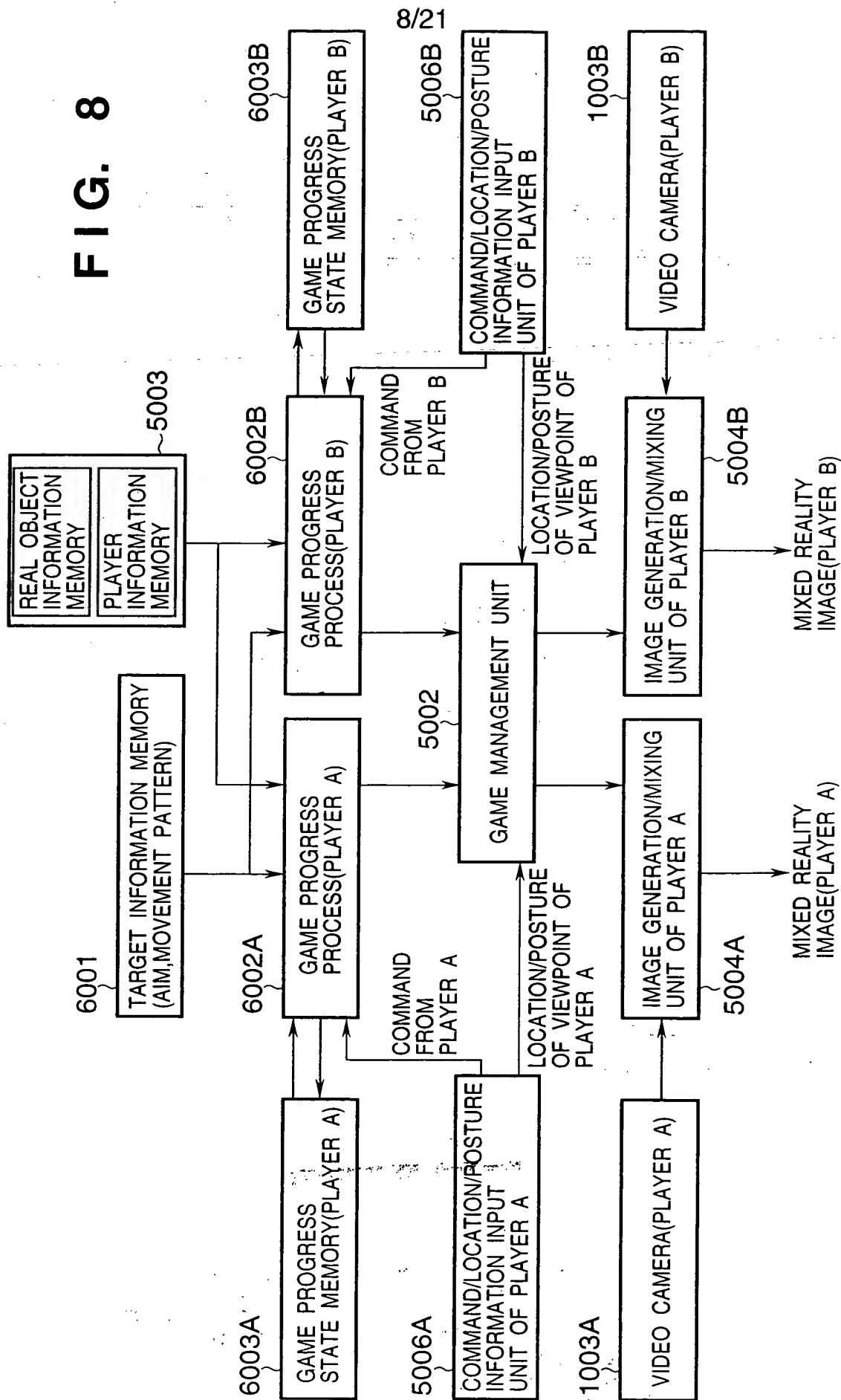




FIG. 9

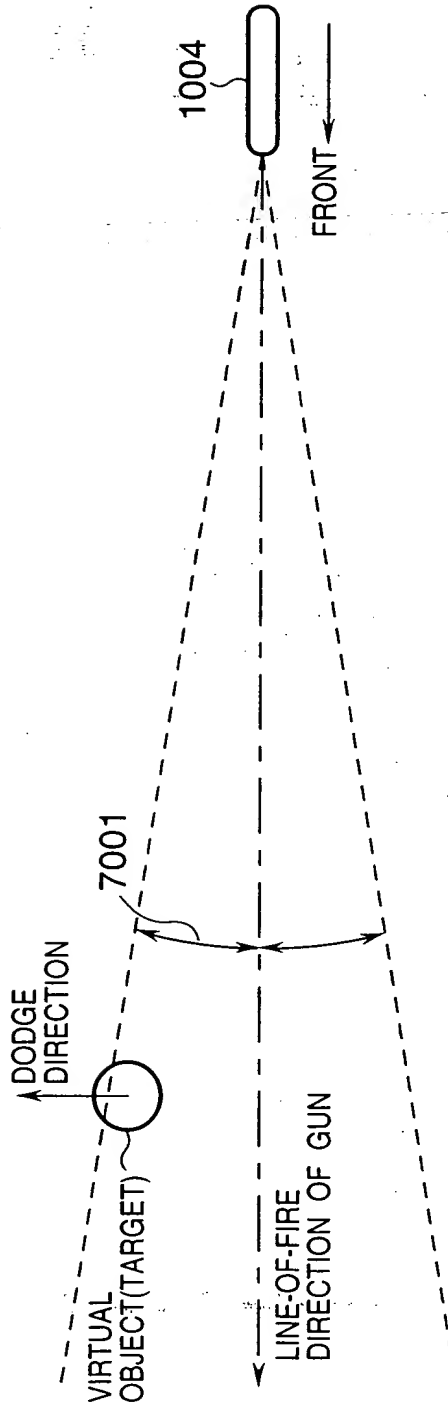


FIG. 10

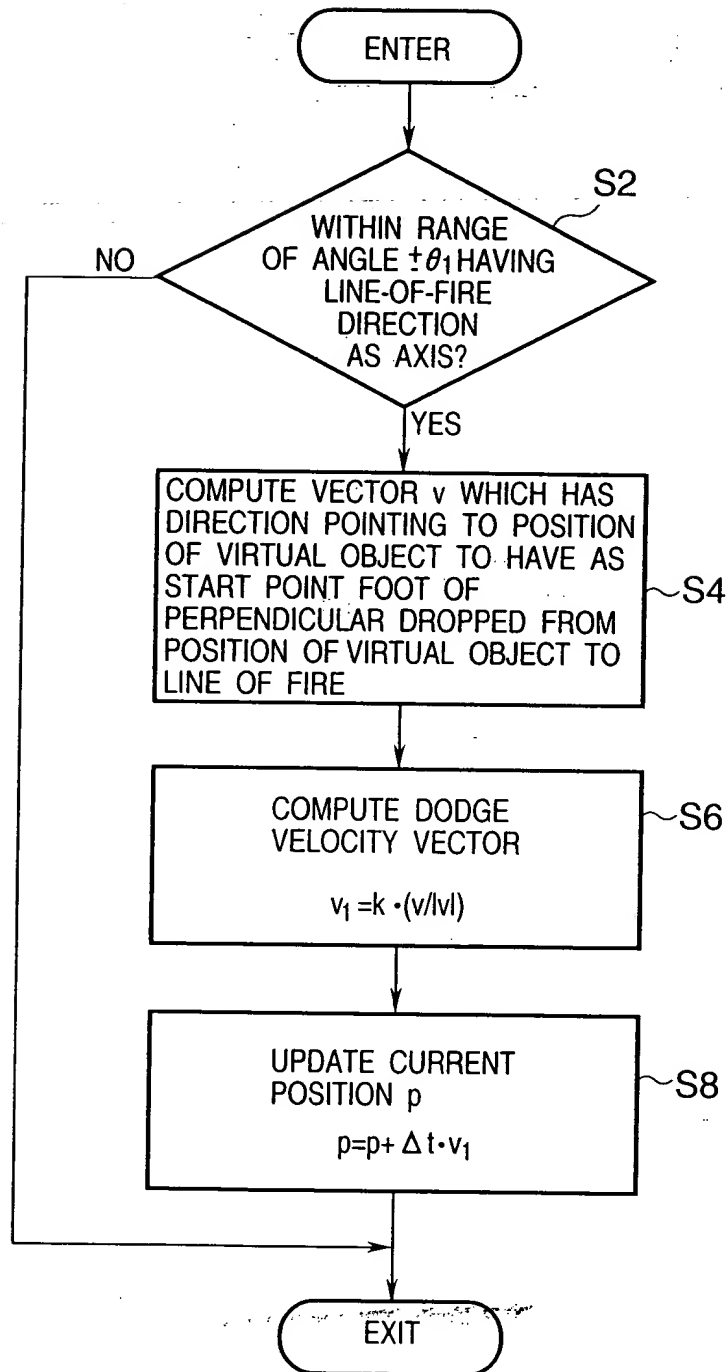




FIG. 12

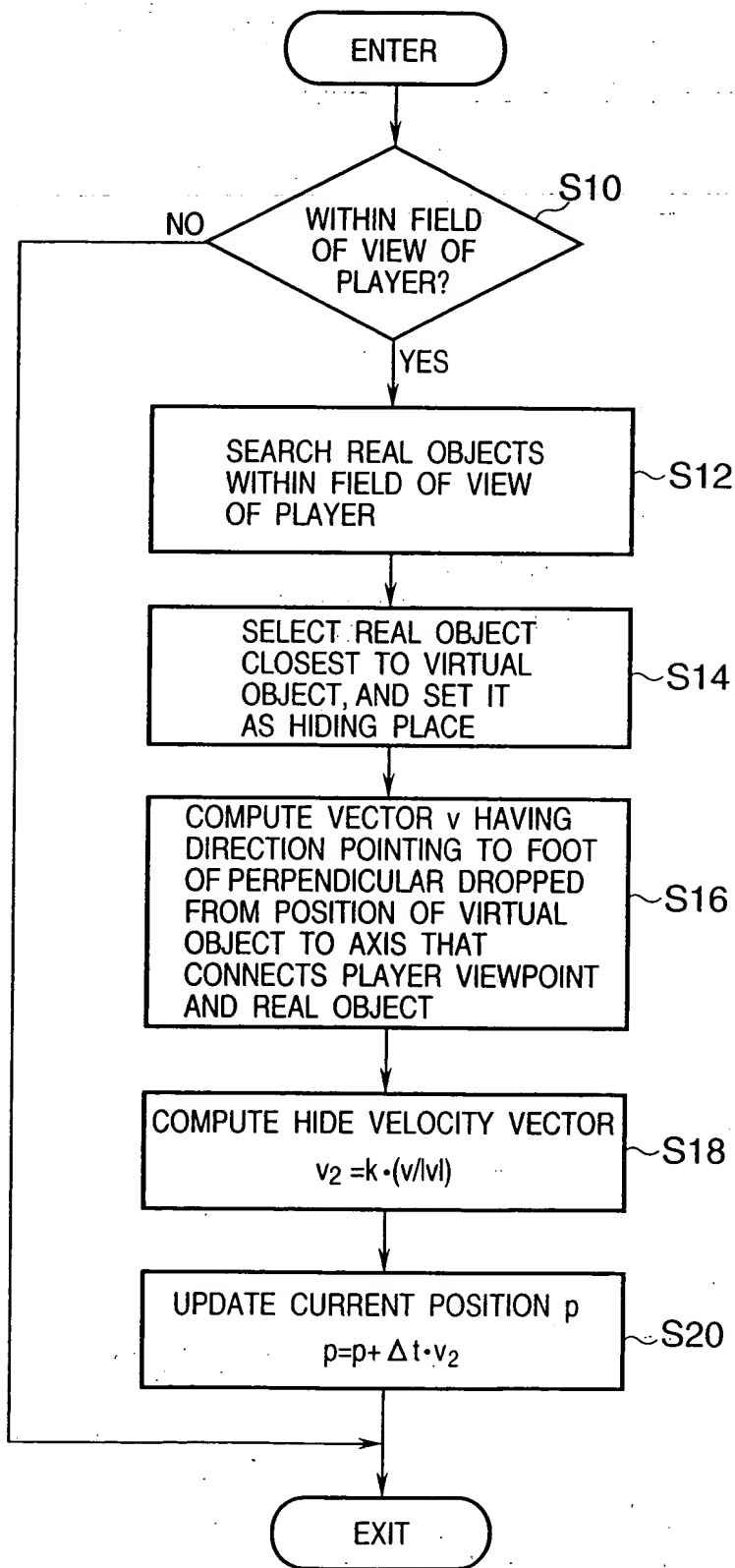


FIG. 13

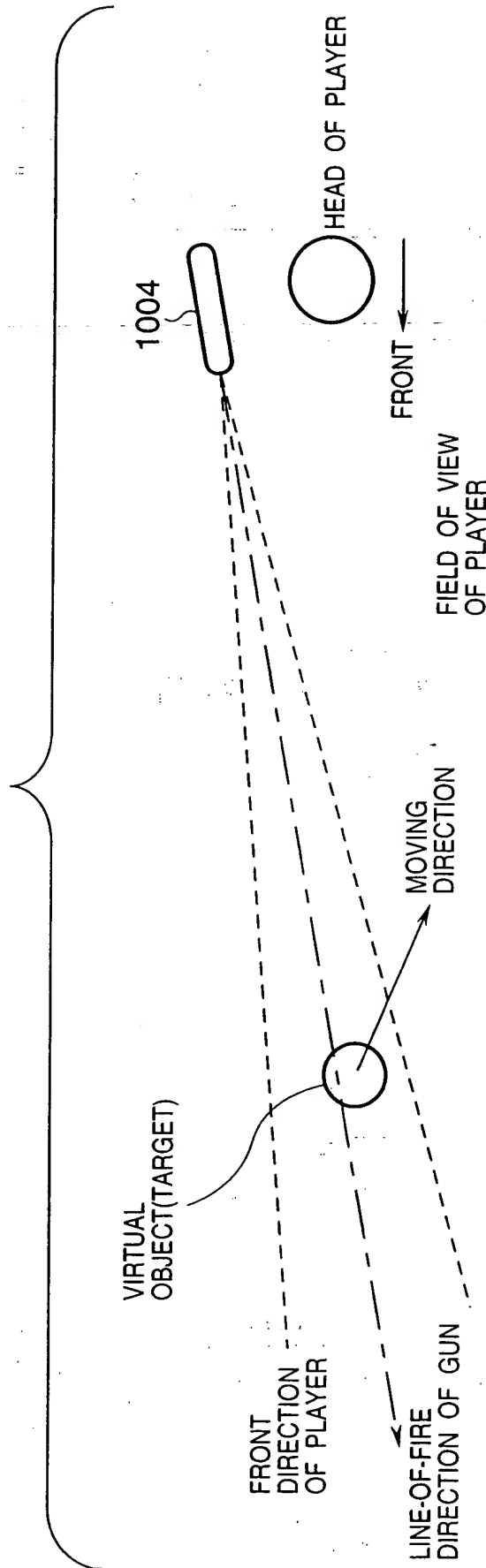
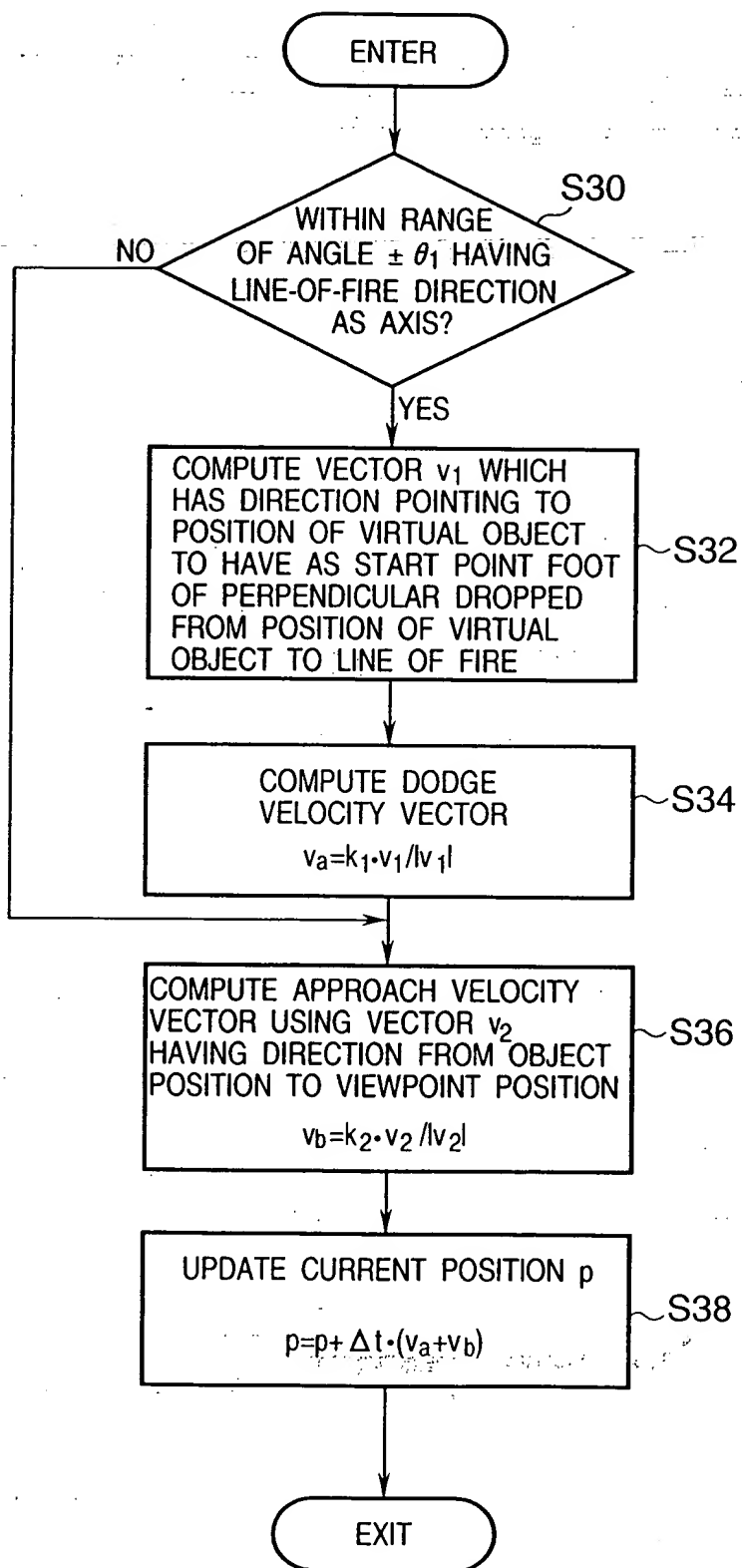
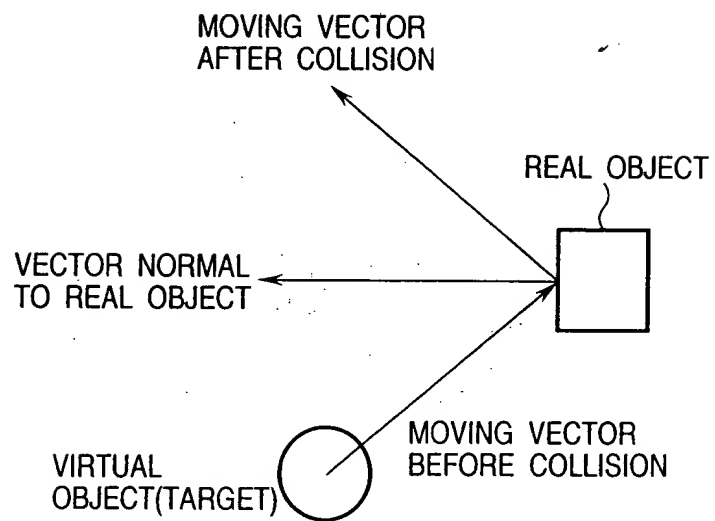


FIG. 14



004720 1699500

**FIG. 15**



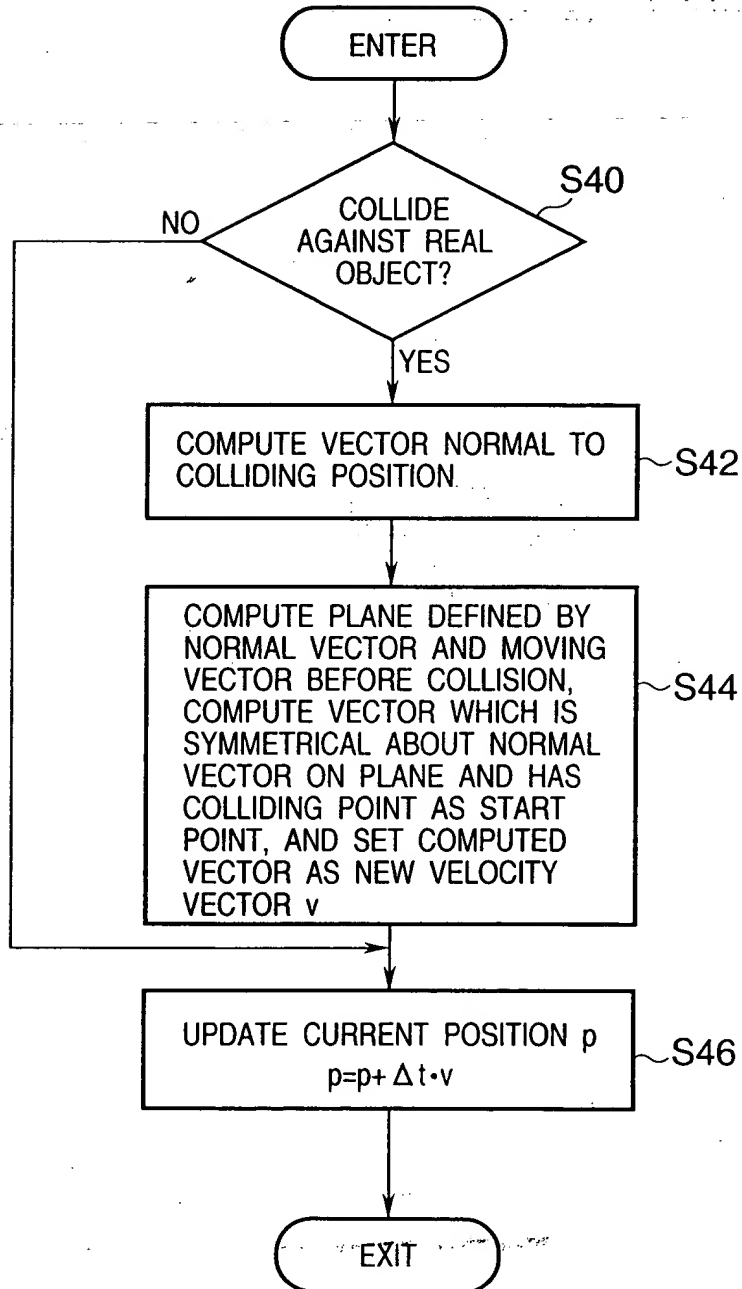
CHANGE IN MOVING  
DIRECTION DUE TO COLLISION

001720 10000000

```

graph TD
    Start([ENTER]) --> S40{COLLIDE AGAINST REAL OBJECT?}
    S40 -- YES --> S42[COMPUTE VECTOR NORMAL TO SLIDING POSITION]
    S42 --> S44[COMPUTE PLANE DEFINED BY NORMAL VECTOR AND MOVING VECTOR BEFORE COLLISION, COMPUTE VECTOR WHICH IS PERPENDICUTARIAL ABOUT NORMAL VECTOR ON PLANE AND HAS SLIDING POINT AS START POINT, AND SET COMPUTED VECTOR AS NEW VELOCITY VECTOR v]
    S44 --> S46[UPDATE CURRENT POSITION p  
p=p+Δt·v]
    S46 --> End([EXIT])

```



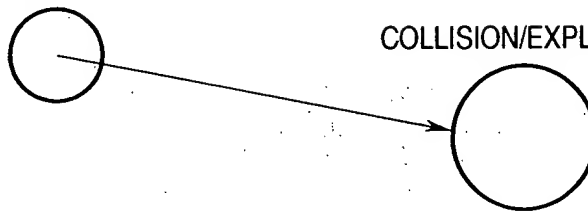


**FIG. 17**

VIRTUAL OBJECT  
(TARGET)

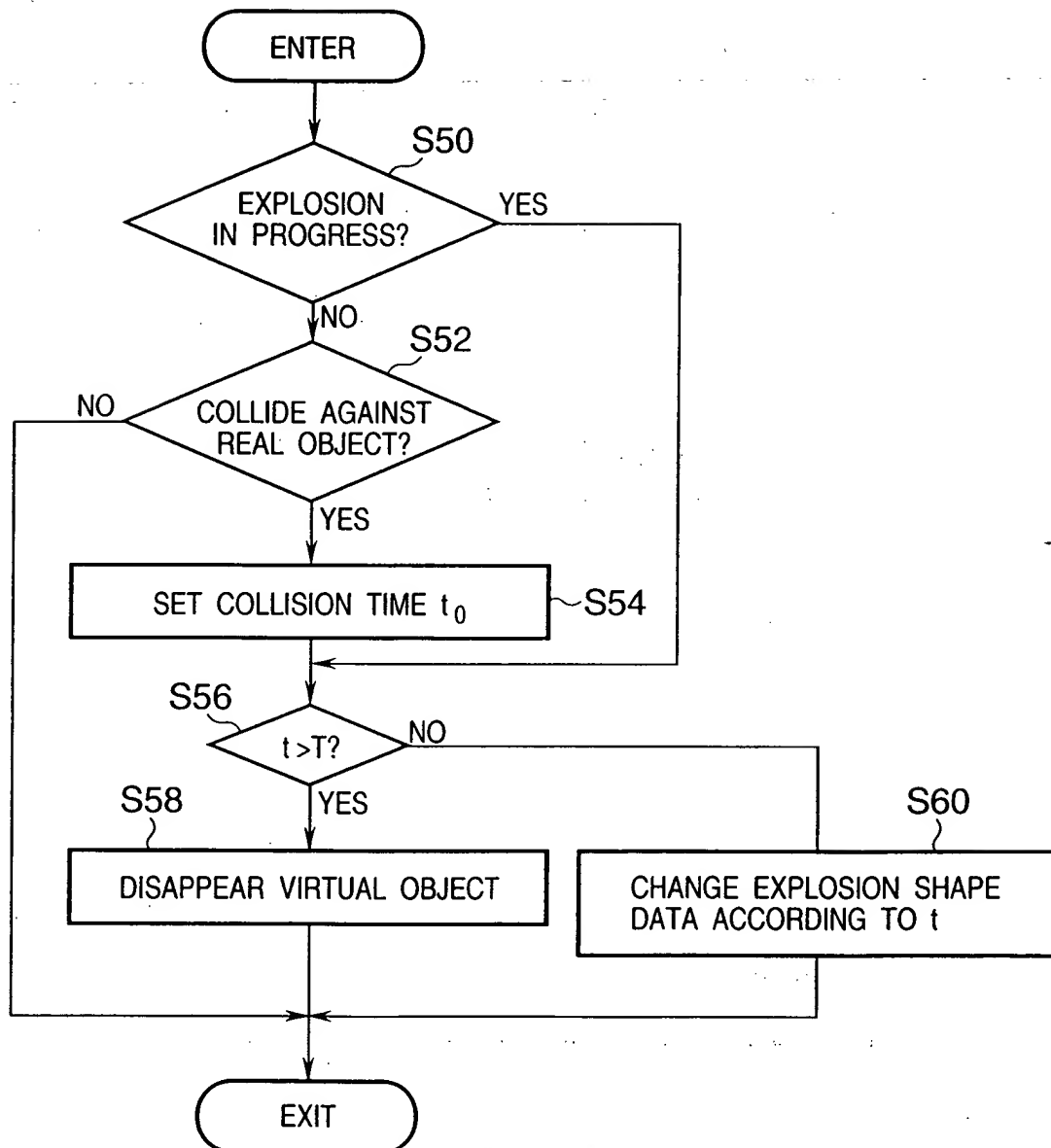
COLLISION/EXPLOSION

REAL  
OBJECT  
(PLAYER)



004720 10030540

FIG. 18



1. 1990年12月25日，在俄罗斯莫斯科市，俄罗斯联邦总统叶利钦在克里姆林宫正式签署《俄罗斯联邦新宪法》。

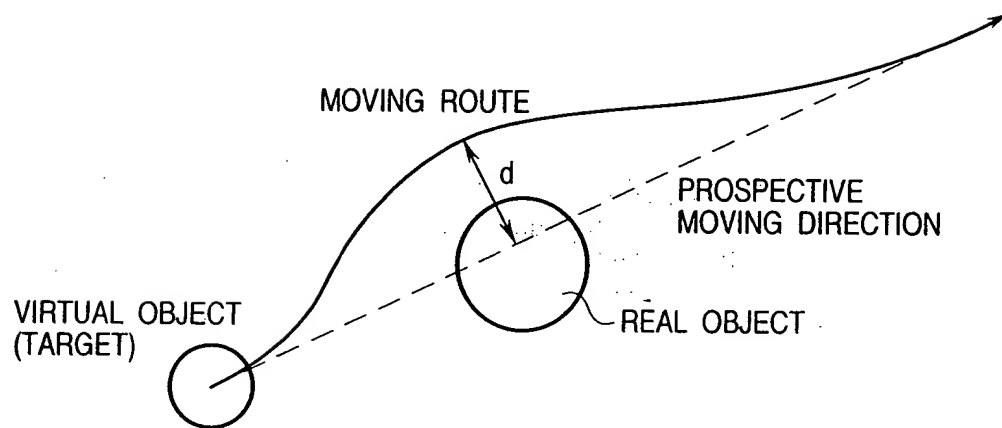
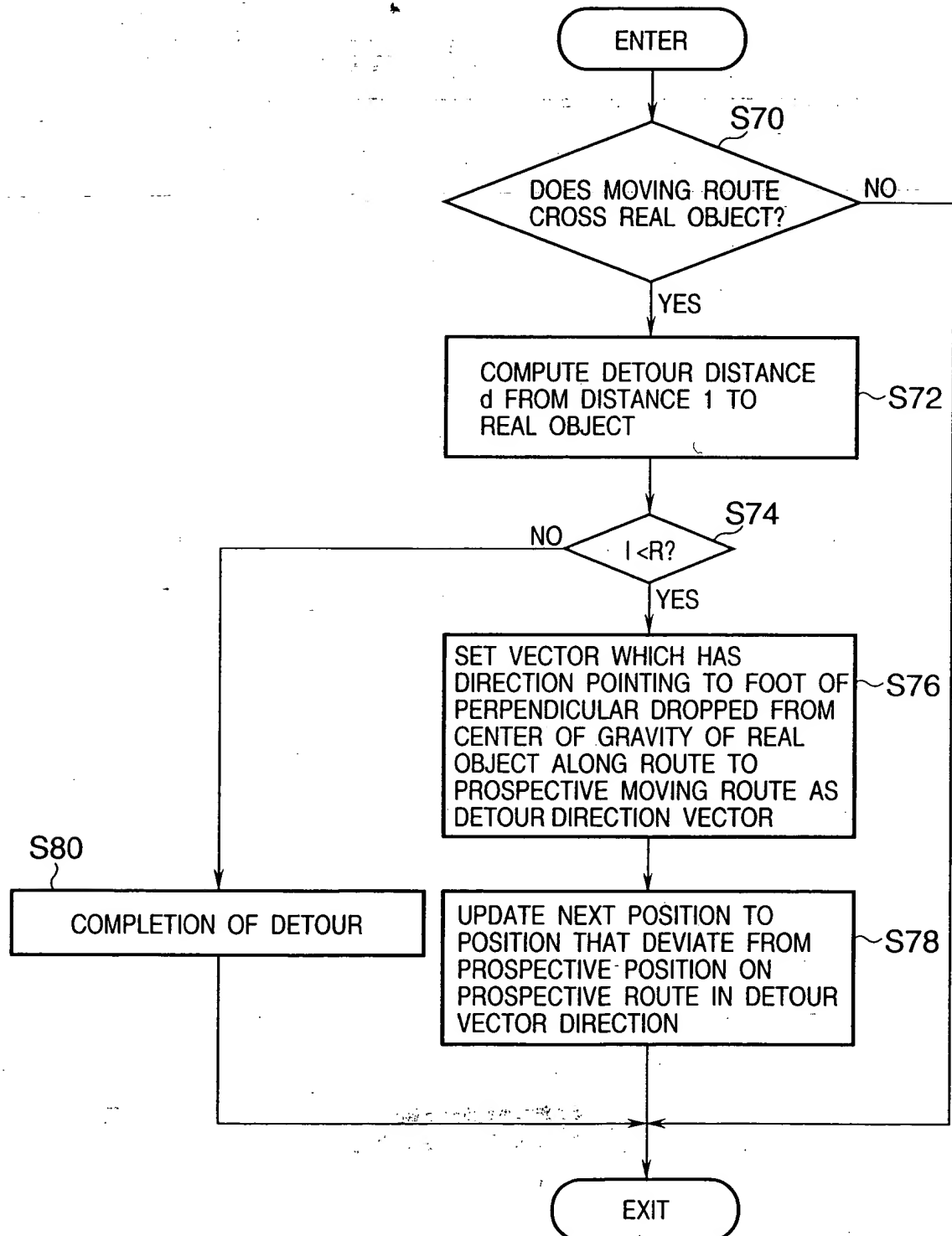


FIG. 20



The graph shows a coordinate system with a vertical axis labeled  $d$  and a horizontal axis labeled  $R$ . The origin is marked with  $0$ . A smooth, continuous curve starts at a point on the  $d$ -axis labeled  $R$ . The curve slopes downwards and to the right, becoming increasingly flat as it approaches the  $R$ -axis. The curve never crosses the  $R$ -axis, only asymptotically approaching it.